

Safety Data Sheet GET7750 Date of issue: 03/09/2016 Version: 1.0

SECTION 1: Identification of the sub	stance/mixture and of t	he company/undertaking	
1.1. Product identifier			
Product form	: Substance		
Physical state	: Solid		
Substance name	: TETRAPHENYLGERMANE		
Product code	: GET7750		
Formula	: C24H20Ge		
Synonyms	: TETRAPHENYLGERMANI	UM; GERMANE, TETRAPHENYL-	
Chemical family	: ORGANOGERMANE		
1.2. Relevant identified uses of the subs	tance or mixture and uses ac	vised against	
Use of the substance/mixture	: Chemical intermediate For research and industrial	use only	
1.3. Details of the supplier of the safety	data sheet		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 . info@gelest.com	AM - 5:30 PM EST		
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-93	00 (USA); +1 703-527-3887 (International)	
<b>SECTION 2: Hazards identification</b>			
2.1. Classification of the substance or m	nixture		
GHS-US classification			
Skin Irrit. 2 H315			
Eye Irrit. 2A H319			
Full text of H statements : see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritatio H319 - Causes serious eye		
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective glov P264 - Wash hands thorou P302+P352 - If on skin: Wa P332+P313 - If skin irritatio P305+P351+P338 - IF IN E contact lenses, if present a P337+P313 - If eye irritatio P321 - Specific treatment (state)</li> </ul>	ves/protective clothing/eye protection/face protection	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
No data available			
<b>SECTION 3: Composition/Informatio</b>	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
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Name	: TETR	APHENYLGERMANE		
CAS No	: 1048-05-1			
EC no	: 213-880-8			
Name		Product identifier	%	GHS-US classification
Tetraphenylgermane		(CAS No) 1048-05-1	95 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
	ipinent and emergency procedures
	: Wear protective equipment as described in Section 8.
Protective equipment Emergency procedures	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
· · · · ·	authorities if product enters sewers or public waters.
6.3. Methods and material for containme	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams

 Methods for cleaning up
 : Sweep or shovel spills into appropriate container for disposal.

 6.4.
 Reference to other sections

See Heading 8. Exposure controls and personal protection.

streams.

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SECTION 7: Handling and s				
7.1. Precautions for safe har	5			
Precautions for safe handling	exhaust or general room	and eyes. Do not breathe dust. Avoid dust formation. Provide local n ventilation to minimize exposure to dust.		
Hygiene measures		: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe stora	age, including any incompatibilities			
Storage conditions	e conditions : Keep container tightly closed.			
Incompatible materials	: Oxidizing agent. Strong	: Oxidizing agent. Strong acids.		
Storage area	age area : Store in a well-ventilated place. Store away from heat.			
7.3. Specific end use(s)				
No additional information available				
<b>SECTION 8: Exposure cont</b>	rols/personal protection			
8.1. Control parameters				
Tetraphenylgermane (1048-05-1)	1			
USA OSHA OS	SHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup> nuisance dust		
8.2. Exposure controls				
Appropriate engineering controls	: Provide local exhaust o	r general room ventilation.		
Personal protective equipment		exposure. Emergency eye wash fountains and safety showers should bate vicinity of any potential exposure.		
Hand protection	: Neoprene or nitrile rubb	per gloves.		
Eye protection	: Chemical goggles. Con	: Chemical goggles. Contact lenses should not be worn.		
Skin and body protection	: Wear suitable protective	: Wear suitable protective clothing.		
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.			
		contined duct and mict (change cantings) respiratori		
SECTION 9: Physical and c				
9.1. Information on basic phy	vsical and chemical properties			
Physical state	: Solid			
Appearance	: Solid.			
Molecular mass	: 381.02 g/mol			
Color	: Off-white.			
Odor	: No data available	: No data available		
Odor threshold	: No data available	: No data available		
Refractive index	: 1.58			
рН	: No data available			
Relative evaporation rate (butyl acet	ate=1) : No data available			
Melting point	: 231 - 234 °C			
Freezing point	: No data available			
Boiling point	: 210 °C @ 1 mm Hg sub	)		
Flash point	: >200 °C			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapor pressure	: < 0.01 mm Hg @ 25°C			
Relative vapor density at 20 °C	: No data available			
Relative density	: 1.1 - 1.2			
VOC content	: <1%			
Solubility	: Insoluble in water.	Solubility, benzene; Soluble: acetone, hot toluene		
Log Pow	: No data available			
Log Kow	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosive properties				
		: No data available		

Oxidizing properties

: No data available

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Explosion limits : No data available 9.2. Other information No additional information available SECTION 10, Stability and reactivity No additional information available 10.1. Reactivity No additional information available 10.2. Chemical stability Stable in sealed containers. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid Heat. Open flame. Sparks. 10.5. Incompatible materials Ovidizing agent. Strong acids. 10.6. Hazardous decomposition products Carbon monoxide. Germanium dioxide. Organic acid vapors. SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified Skin corrosion/irritation : Causes serious eye irritation. Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitization : Not classified Carrinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified Specific target o
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Reproductive toxicity       : Not classified         Specific target organ toxicity (single exposure)       : Not classified         Specific target organ toxicity (repeated       : Not classified
Specific target organ toxicity (single exposure)       : Not classified         Specific target organ toxicity (repeated       : Not classified
Specific target organ toxicity (repeated : Not classified
Aspiration hazard : Not classified
Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation.
Symptoms/injuries after ingestion : May be harmful if swallowed.
Reason for classification : Expert judgment
SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
Other adverse effects : This substance may be hazardous to the environment.
Effect on ozone layer : No additional information available
Effect on the global warming : No known ecological damage caused by this product.
SECTION 13: Disposal considerations
13.1. Waste treatment methods
13.1.       Waste treatment methods         Sewage disposal recommendations       : Do not dispose of waste into sewer.

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Ecology - waste materials	: Avoi	d release to the environment.		
SECTION 14: Trans	port information			
14.1. UN number				
Not regulated for transport				
14.2. UN proper ship	ping name			
Not applicable				
14.3. Additional inform	ation			
Other information	: No s	supplementary information availa	ble.	
Transport by sea				
No additional information a	available			
Air transport				
No additional information a	available			
SECTION 15: Regul	atory information			
15.1. US Federal regulati	ons			
Tetraphenylgermane (1	048-05-1)			
Listed on the United Stat	es TSCA (Toxic Substances C	control Act) inventory		
15.2. International regula	tions	· · ·		
Totroub and some one (4	040.05.4)			
Tetraphenylgermane (1	U48-U5-1) IDSL (Non-Domestic Substand	and Lint)		
		ory of Existing Commercial Chen	nical Substances)	
15.3. US State regulation	S			
TETRAPHENYLGERMAN	E(1048-05-1)			
U.S California - Proposit	ion 65 - Carcinogens List	No		
U.S California - Proposit Toxicity	ion 65 - Developmental	No		
U.S California - Proposit Toxicity - Female	ion 65 - Reproductive	No		
U.S California - Proposit Toxicity - Male	ion 65 - Reproductive	No		
Tetraphenylgermane (10				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
			1	

# SECTION 16: Other information Abbreviations and acronyms : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

H315	Causes skin irritation
H319	Causes serious eye irritation

#### HMIS III Rating

Health Flammability : 2 Moderate Hazard - Temporary or minor injury may occur

: 1 Slight Hazard

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Physical

: 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 03/09/2016 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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